

L31 0 METALLOPROTEINASE AND L22

=> d his

(FILE 'HOME' ENTERED AT 13:51:30 ON 02 DEC 2000)

FILE 'MEDLINE' ENTERED AT 13:51:39 ON 02 DEC 2000

L1 26 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN
 L2 0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
 L3 0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
 L4 1 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
 L5 0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN AND
 L6 0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN AND
 L7 26 DUP REM L1 (0 DUPLICATES REMOVED)

FILE 'CAPLUS' ENTERED AT 13:55:27 ON 02 DEC 2000

FILE 'CAPLUS, MEDLINE, CONFSCI, USPATFULL, EMBASE, BIOSIS' ENTERED AT
 13:55:53 ON 02 DEC 2000

L8 24 S GON-1
 L9 17 DUP REM L8 (7 DUPLICATES REMOVED)
 L10 3 S L9 (S) NEMATODE
 L11 4 S L9 AND NEMATODE
 L12 17 DUP REM L10 L9 (3 DUPLICATES REMOVED)
 L13 4 DUP REM L10 L11 (3 DUPLICATES REMOVED)
 L14 0 S L8 AND L1
 L15 127 S L1
 L16 0 S L15 AND NEMATODE
 L17 1777 S GONAD DEVELOPMENT
 L18 0 S L17 AND L15
 L19 26 S L17 AND NEMATODE
 L20 3 S L17 AND NEMATODE AND REVIEW
 L21 115 S GONAD DEVELOPMENT AND REVIEW
 L22 93 S L21 NOT PY>1998
 L23 0 S L22 AND ADAMTS-1
 L24 0 S L21 AND ADAMTS-1
 L25 0 S GONAD DEVELOPMENT AND ADAMTS-1
 L26 6 S GONAD AND ADAMTS-1
 L27 3 DUP REM L26 (3 DUPLICATES REMOVED)
 L28 0 S PROCOLLAGEN-1 N-COLLAGENASE
 L29 0 S (PROCOLLAGEN-1 N-PRTEASE) OR (PROCOLLAGEN-1 N-PROTEINAS)
 L30 0 S (PROCOLLAGEN-1 N-PROTEASE) OR (PROCOLLAGEN-1 N-PROTEINASE)
 L31 0 S METALLOPROTEINASE AND L22

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	130.24	132.65
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-8.35	-8.35

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 14:15:22 ON 02 DEC 2000

DT Journal

LA English

AB In the nematode *C. elegans*, the gonad acquires a U-shape by the directed migration of a specialized leader cell, which is located at the tip of the growing gonadal arm. The gon-1 gene is essential for gonadal morphogenesis: in gon-1 mutants, no arm elongation occurs and somatic gonadal structures are severely malformed. Here we report that gon-1 encodes a secreted protein with a metalloprotease domain and multiple thrombospondin type-1-like repeats. This motif architecture is typical of a small family of genes that include bovine procollagen I N-protease (P1NP), which cleaves collagen, and murine ADAMTS-1, the expression of which correlates with tumor cell progression. We find that gon-1 is expressed in 2 sites, leader cells and muscle, and that expression in each site has a unique role in forming the gonad. We speculate that GON-1 controls morphogenesis by remodelling basement membranes and that regulation of its activity is crucial for achieving organ shape.

RE.CNT 54

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- (2) Anderson, P; *C elegans* II 1997, P185 CAPLUS
- (4) Aronson, B; *Proc Natl Acad Sci USA* 1994, V91, P7683 CAPLUS
- (5) Aronson, B; *Science* 1994, V263, P1578 CAPLUS
- (6) Arpaia, G; *Plant Physiol* 1993, V102, P1299 CAPLUS
- (12) Cha, J; *Biochemistry* 1997, V36, P16019 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT